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NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NE/W.No.09/CSR-08/119d/CEMENT/2016-17 Date: 17.08.2016

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
***AGENCY**		**M/s. Nandi Enterprises,** Prop. Sri. P. Vijay Babu, #1504, 4th C Main, 2nd Stage, WOC Road, Bangalore – 86.
***NAME OF THE WORK**	:	Improvements and Asphalting to roads at Vaishnavi Layout and surrounding areas in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE		AEE/BBMP/VSD/PR/230/2016-17 Dated: 16.08.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	16.08.2016
PERIOD OF TESTING	:	16.08.2016 to 17.08.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

****

VISHWANATH .C
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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T-2377

Job No.: CTCE/BBMP/NE/W.No.09/CSR-08/119d/SAND-Gradation/2016-17 : 17.08.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **M/s. Nandi Enterprises,**
Prop. Sri. P. Vijay Babu, #1504, 4th C Main, 2nd Stage, WOC Road, Bangalore – 86.

*** Name of Work** : Improvements and Asphalting to roads at Vaishnavi Layout and surrounding areas in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/230/2016-17 Dated: 16.08.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 16.08.2016

Date of Testing : 17.08.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	91.80	90-100	90-100	90-100	95-100
2.36	74.60	60-95	75-100	85-100	95-100
1.18	53.00	30-70	55-90	75-100	90-100
600 Micron	23.80	15-34	35-59	60-79	80-100
300 Micron	10.40	5-20	8-30	12-40	15-50
150 Micron	2.60	0-10	0-10	0-10	0-15

*Information is furnished by the Customer/Representative.

Remarks : This sample is under Zone-I specific limits.

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/NE/W.No.09/CSR-08/119d/AGG/GR/2016-17 : 17.08.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **M/s. Nandi Enterprises,**
Prop. Sri. P. Vijay Babu, #1504, 4th C Main, 2nd Stage, WOC Road, Bangalore – 86.

*** Name of Work** : Improvements and Asphalting to roads at Vaishnavi Layout and surrounding areas in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/230/2016-17 Dated: 16.08.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 16.08.2016

Date of Testing : 17.08.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.93	95-100	85-100
20	37.14	30-70	0-20
10	16.21	10-35	0-5
4.75	3.14	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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T-2377

Job No.: CTCE/BBMP/NE/W.No.09/CSR-08/119d/AGG/GR/2016-17 : 17.08.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **M/s. Nandi Enterprises,**
Prop. Sri. P. Vijay Babu, #1504, 4th C Main, 2nd Stage, WOC Road, Bangalore – 86.

*** Name of Work** : Improvements and Asphalting to roads at Vaishnavi Layout and surrounding areas in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/230/2016-17 Dated: 16.08.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm)

Sample Received on : 16.08.2016

Date of Testing : 17.08.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.16	95-100	85-100
10	33.44	25-55	0-20
4.75	2.54	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/NE/W.No.09/CSR-08/119d/CC Solid Block/2016-17 : 22.08.2016

TEST REPORT ON SOLID CONCRETE BLOCKS

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **M/s. Nandi Enterprises,**
Prop. Sri. P. Vijay Babu, #1504, 4th C Main, 2nd Stage, WOC Road, Bangalore – 86.

*** Name of the Work** : Improvements and Asphalting to roads at Vaishnavi Layout and surrounding areas in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/230/2016-17 Dated: 16.08.2016

Sample Received on : 17.08.2016

Date of Testing : 22.08.2016

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	35.26	260.4	3.26	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	34.75	261.7	3.27	
3	Block 3	35.36	259.8	3.25	
4	Block 4	35.84	260.5	3.26	
5	Block 5	36.23	258.4	3.23	
6	Block 6	35.48	259.3	3.24	
7	Block 7	34.12	262.7	3.28	
8	Block 8	35.96	261.9	3.27	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/NE/W.No.09/CSR-08/119d/CUBE/2016-17 26.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer**	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
***Agency**	: **M/s. Nandi Enterprises,** Prop. Sri. P. Vijay Babu, #1504, 4th C Main, 2nd Stage, WOC Road, Bangalore – 86.
***Name of the work**	: Improvements and Asphalting to roads at Vaishnavi Layout and surrounding areas in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/230/2016-17 Dated: 16.08.2016
***Sample ID**	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
***Grade of Concrete**	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 26.09.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.08.2016	26.09.2016	8.157	487.2	21.65
2	29.08.2016	26.09.2016	8.263	498.7	22.16
3	29.08.2016	26.09.2016	8.394	510.4	22.68

*Information is furnished by the Customer/Representative.

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/NE/W.No.09/WMM/Gradation/2016-17 08.09.2016

GRADATION FOR WMM
MORTH TABLE-400-11

Customer : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Nandi Enterprises,**
Prop. Sri. P. Vijay Babu, #1504, 4th C Main, 2nd Stage, WOC Road, Bangalore – 86.

Name of Work : Improvements and Asphalting to roads at Vaishnavi Layout and surrounding areas in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/230/2016-17 Dated: 16.08.2016

Date of Testing : 08.09.2016

Material : WMM

Sample Location : WMM Mix Plant Oven Dry Wt (gm): **7380**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	125	125	1.7	98.3	95-100
22.4	2515	2640	35.8	64.2	60-80
11.2	1250	3890	52.7	47.3	40-60
4.75	1050	4940	66.9	33.1	25-40
2.36	990	5930	80.4	19.6	15-30
0.600	650	6580	89.2	10.8	8-22
0.075	600	7180	97.3	2.7	0-8

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****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthi Ganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

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Job No.: CTCE/BBMP/NE/W.No.09/WMM/AIV/2016-17 08.09.2016

Aggregate Impact Value

IS: 2386 Part IV

Customer	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	**M/s. Nandi Enterprises,** Prop. Sri. P. Vijay Babu, #1504, 4th C Main, 2nd Stage, WOC Road, Bangalore – 86.
Name of the Work	Improvements and Asphalting to roads at Vaishnavi Layout and surrounding areas in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	AEE/BBMP/VSD/PR/230/2016-17 Dated: 16.08.2016
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	08.09.2016

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	384	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	355	360	
4	Aggregate Impact value = percent fines	22.40	22.25	
	100* (W_2/W_1)%			22.32

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

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Job No.: CTCE/BBMP/NE/W.No.09/WMM/S-T/2016-17 08.09.2016

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Customer	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	**M/s. Nandi Enterprises,** Prop. Sri. P. Vijay Babu, #1504, 4th C Main, 2nd Stage, WOC Road, Bangalore – 86.
Name of Work	Improvements and Asphalting to roads at Vaishnavi Layout and surrounding areas in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	AEE/BBMP/VSD/PR/230/2016-17 Dated: 16.08.2016
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	08.09.2016

Result : Flakiness Index = **11.58%**

Elongation Index = **13.62%**

Result : Combined Flakiness & Elongation index 25.20%

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

Note:

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

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Job No.: CTCE/BBMP/NE/W.No.09/SDBC/Bit/2016-17 17.09.2016

BITUMEN CONTENT DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

AS per IRC:SP:-1984

CUSTOMER	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	**M/s. Nandi Enterprises,** Prop. Sri. P. Vijay Babu, #1504, 4th C Main, 2nd Stage, WOC Road, Bangalore – 86.
NAME OF THE WORK	Improvements and Asphalting to roads at Vaishnavi Layout and surrounding areas in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	AEE/BBMP/VSD/PR/230/2016-17 Dated: 16.08.2016
SAMPLE I/D	Roads at Vaishnavi Layout Ward No.09, BBMP, Bangalore
DATE OF TESTING	17.09.2016

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	475	474
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	25	26.00
7. Bitumen content in %	5.00	5.20
8. Average	**5.10**	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthi Ganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

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Job No.: CTCE/BBMP/NE/W.No.09/SDBC/Bit/2016-17 17.09.2016

BITUMEN CONTENT GRADATION DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

As per IS2386 and IRC:SP:11-1984

CUSTOMER	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	**M/s. Nandi Enterprises,** Prop. Sri. P. Vijay Babu, #1504, 4th C Main, 2nd Stage, WOC Road, Bangalore – 86.
NAME OF THE WORK	Improvements and Asphalting to roads at Vaishnavi Layout and surrounding areas in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	AEE/BBMP/VSD/PR/230/2016-17 Dated: 16.08.2016
SAMPLE I/D	Roads at Vaishnavi Layout Ward No.09, BBMP, Bangalore
DATE OF TESTING	17.09.2016

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GRADATION AFTER EXTRACTION

Sieve Size in mm	Trail 1				Specified Limits as per MORTH specification table 500-15 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
13.2	0	0	0	100	100
9.5	25.38	5.34	5.34	94.66	90-100
4.75	261.5	55.05	60.40	39.60	35-51
2.36	54.35	11.44	71.84	28.16	24-39
1.18	38.56	8.12	79.96	20.04	15-30
0.3	33.26	7.00	86.96	13.04	9-19
0.075	38.55	8.12	95.07	4.93	3-8

Sieve Size in mm	Trail 2				Specified Limits as per MORTH specification table 500-15 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
13.2	0	0	0	100	100
9.5	33.15	6.99	6.99	93.01	90-100
4.75	259.3	54.70	61.70	38.30	35-51
2.36	55.32	11.67	73.37	26.63	24-39
1.18	37.21	7.85	81.22	18.78	15-30
0.3	32.26	6.81	88.03	11.97	9-19
0.075	32.26	6.81	94.83	5.17	3-8

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

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M/s. Civil-Tech Consultants & Engineers

****

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathinagara, Basaveshwaranagar, Bangalore-560079.